



FEDERAL TRANSIT ADMINISTRATION

## 2<sup>nd</sup> State of Good Repair Roundtable

# Research Activities To Support the State of Good Repair

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# Presentation Overview

- Recently completed SGR related research projects
- Proposed SGR related projects in FY10 budget
- TCRP Research Project E-09
- Asset Management Pilot Projects

# **Condition-Based Maintenance Practices**

- Transportation Technology Center Inc. (TTCI)
- Project Description: To develop a tool to track railcar maintenance
- Products/ Deliverables: Developed Condition Based Maintenance Evaluation Model
- Measureable Outcomes: Report and model available for transit agencies

# **Transit Methodology Using Six Sigma**

- New England Professionals
- Project Description: Applicability of Six Sigma Methodology in Heavy Rail Maint.
- Products/ Deliverables: MDT Case Study Methodology on [www.FTA.dot.gov](http://www.FTA.dot.gov) –Research & Reports
- Measureable Outcomes: Potential Phase 2 would provide Six Sigma tool

## **Condition Assessment Research** (proposed)

- **Project Description:** document best practices for assessing the condition of assets
- **Products/ Deliverables:** Report on findings, best practices and prioritized opportunities
- **Measureable Outcomes:** improvement in condition of safety critical transit assets

# **SGR Management Practices Research**

## **(proposed)**

- **Project Description:** Research use of methodologies such as Six Sigma that integrate asset management
- **Products/ Deliverables:** Comparison of asset management tools, present at SGR Roundtables
- **Measureable Outcomes:** Improved Asset Management practices at transit agencies

# **Railcar Maintenance Practices**

## **(proposed)**

- **Project Description:** Document railcar size, age of fleet, no. of cars, availability, maintenance practices
- **Products/ Deliverables:** Identify improved rail maintenance practices, two presentations at SGR Roundtables
- **Measureable Outcomes:** Increase in rail safety and fleet availability

## **Rail Transit Service Plans & Procedures for Extreme Weather** (proposed)

- Project Description: determine best practices in dealing with extreme weather, service levels, keeping tracks and equipment operable and notifying public of service plans and conditions
- Products/ Deliverables: Report on best practices
- Measureable Outcomes: Improved operations during extreme weather events



## **Cost-Benefit of Platform Doors** (proposed)

- Project Description: Determine the costs and benefits of implementing platform door system for new and existing platforms
- Products/ Deliverables: Research report
- Measureable Outcomes: Improved safety and energy efficiency

**TCRP Project Panel E-09****State of Good Repair: Evaluating the Implications for Transit**

- Project Description: Synthesize information, frame the issues, develop a detailed research agenda
- Products/ Deliverables: A detailed SGR research agenda
- Measureable Outcomes: Develop a detailed research agenda

## **Asset Management Pilot Projects**

- Compare Asset Management systems for small, medium and large agencies
- Develop and Beta Test TERM Lite at target transit agencies
- Examine use of Asset Management in Transportation Planning

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